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PROGRAM LIBRARY

DECUS NO.	8-371
TITLE	TELETYPE CONTROL OF ND50/50 MEMORY UNIT (TYPED)
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DATE	July 27, 1970
SOURCE LANGUAGE	PAL III

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TELETYPE CONTROL OF ND50/50 MEMORY UNIT (TYPED)

DECUS Program Library Write-up

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TYPED is a program to allow the user quick access to Nuclear Data's 50/50 Memory and Display unit via the ASR33 teletype. After entry through the monitor, the user types in the starting channel (1-4096) and the program echoes the contents which are then subject to modification. The program contains two control characters, one in case of error made in typing channel contents, the other is a terminal character which returns control to the monitor routine.

/ 6/23/70 WJB

/PROGRAM TO INPUT NUMBERS IN NUCLEAR DATA
/50-50 SYSTEM MEMORY AND DISPLAY UNIT FROM
/ASR 33 TTY. USE AS OVERLAY WITH NUCLEAR DATA'S
/PHYSICA ANALYZER PROGRAM(ND40 - 1042).
/ INPUT VIA "TY"ALTMODE ETC...

/DEFINITIONS FOR ASSEMBLY

IN =4405
CRLF =4465
EIM =4407
FPBI =0010
END =5471
CONN =6371
BSF =6372
SARI =6367
ANFP =0012
FCOF =0016
OUTPUT =0014
FCON =0015
FPAN =0011
SPACE =4470
PRINT =4467

0300 5347 *300 /DECODE

0342 5000 *342 /BEGN

*5000
5000 4467 BEGN, PRINT /PRINT TYPE IN
5001 2005 2005 /DATA, CRLF
5002 4011 4011 /STARTING CHANNEL=
5003 1640 1640
5004 0401 0401
5005 2401 2401
5006 4447 4447
5007 2324 2324
5010 0122 0122
5011 2411 2411
5012 1607 1607
5013 4003 4003
5014 1001 1001
5015 1616 1616
5016 0514 0514
5017 4075 4075
5020 4000 4000

5021	4405	INPUT1,	IN	/INPUT CHANNEL
5022	4465		CRLF	
5023	4407		EIM	
5024	0010		FPBI	
5025	6227		FPUT CHAN	
5026	0000		FEXT	
5027	0000	CHAN,	0	/EXP
5030	0000		0	/HORDR
5031	0000	TCHAN,	0	/LORDR
5032	7300		CLA CLL	
5033	1231		TAD TCHAN	
5034	1311		TAD MI	
5035	3231		DCA TCHAN	/C(TCHAN)-1
5036	7410		SKP	
5037	2231	INCRM,	ISZ TCHAN	
5040	7000		NOP	
5041	1231		TAD TCHAN	
5042	6373		CONN BSF	
5043	5242		JMP .-1	
5044	6367		SARI	
5045	4407		EIM	
5046	0012		ANFP	
5047	0016		FCOF	
5050	0014		OUTPUT	/OUTPUT OLD NUMBER
5051	0000		FEXT	
5052	4405	INPUT2,	IN	/INPUT NEW NUMBER
5053	4266		JMS CHECK1	/IS IT \$ (TERMINAL)
5054	7300		CLA CLL	/YES:RETURN;NO:CONT'
5055	4276		JMS CHECK2	/IS IT * (ERROR)
				/YES: THEN SET FOR
				/FOR INPUT TO SAME CHANNEL
				/NO: CONT'
5056	7300		CLA CLL	
5057	4407		EIM	
5060	0015		FCON	
5061	0011		FPAN	
5062	0016		FCOF	
5063	0000		FEXT	
5064	4465		CRLF	
5065	5237		JMP INCRM	
5066	0000	CHECK1,	0	
5067	7300		CLA CLL	
5070	1057		TAD Z 57	
5071	1312		TAD M244	
5072	7100		CLL	
5073	7640		SZA CLA	
5074	5666		JMP I CHECK1	
5075	5471		END	

5076	0000	CHECK2,	0
5077	7300		CLA CLL
5100	1057		TAD Z 57
5101	1313		TAD M252
5102	7100		CLL
5103	7640		SZA CLA
5104	5676		JMP I CHECK2
5105	4465		CRLF
5106	4470		SPACE
5107	0012		0012
5110	5252		JMP INPUT2
5111	7777	M1,	7777
5112	7534	M244,	7534
5113	7526	M252,	7526

ANFP	0012
BEGN	5000
BSF	6372
CHAN	5027
CHECK1	5066
CHECK2	5076
CONN	6371
CRLF	4465
EIM	4407
END	5471
FCOF	0016
FCON	0015
FPAN	0011
FPBI	0010
IN	4405
INCRM	5037
INPUT1	5021
INPUT2	5052
M1	5111
M244	5112
M252	5113
OUTPUT	0014
PRINT	4467
SARI	6367
SPACE	4470
TCHAN	5031

EXAMPLE OF OPERATION OF PROGRAM

THE UNDERLINED CHARACTERS AND NUMBERS ARE SUPPLIED BY USER. IN CHANNEL 253 AN ERROR WAS MADE IN THE INPUT, SO THE (*) WAS TYPED. THIS RETURNS THE INPUT TO CHANNEL 253 WHERE 200 WAS INPUTTED. THE (\$) WAS TYPED TO RETURN TO THE MONITOR ROUTINE.

*TYPE IN DATA

STARTING CHANNEL = 250

0100
0200
 0
 300500*
200
0100
01000000
030\$

*TYPE IN DATA

STARTING CHANNEL = 250

100
 200
 0
 200
 100
 100000
 0\$

*

